Serial No. 467

395.104

CATALOGUE

OF

CHARTS
MAPS
COAST PILOTS
TIDE TABLES

AND

CURRENT TABLES

OF THE

PHILIPPINE ISLANDS

JANUARY 1, 1930

ISSUED BY THE U. S. DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY

Digitized by the Internet Archive
in 2016

https://archive.org/details/catalogueofchart1930usco

Serial No. 467

U. S. DEPARTMENT OF COMMERCE

COAST AND GEODETIC SURVEY

R. S. PATTON, DIRECTOR

CATALOGUE

OF

CHARTS, MAPS, COAST PILOTS

TIDE TABLES

AND

CURRENT TABLES

OF THE

PHILIPPINE ISLANDS

ISSUED BY THE U. S. COAST AND GEODETIC SURVEY

JANUARY 1, 1930

UNITED STATES
GOVERNMENT PRINTING OFFICE
WASHINGTON : 1930

U. S. SUPERINTENDENT OF DOCUMENTS

FEB 24 1930

EXPLANATION OF DATES ON U. S. COAST AND GEODETIC SURVEY CHARTS

All U. S. Coast and Geodetic Survey charts bear below the border line a note indicating the date on which they were issued from the office in Washington, D. C., or Manila, P. I. The form of this note is—

LIGHTS, BEACONS, BUOYS, AND DANGERS CORRECTED

FOR INFORMATION RECEIVED TO DATE OF ISSUE (date)

It should be understood that no additional information relative to lights, beacons, buoys, and dangers which could be charted had been received previous to this date. It is therefore unnecessary for a mariner to examine his file of Notice to Mariners of date prior to the date of issue of the chart for such corrections.

Other dates which appear on these charts are of less importance to mariners, but are necessary for the identification of the edition and print of the chart, and should be understood by those who use the chart.

A note, known as the authority note, gives the dates (years) of the surveys from which the chart was constructed. This note reads as follows:

AUTHORITIES

SURVEYS (date)

The surveys are by the U. S. Coast and Geodetic Survey unless otherwise stated.

When a new chart is issued, the date (month and year) is printed in the publication note.

PUBLISHED AT MANILA, P. I. (date)

BY THE U. S. COAST AND GEODETIC SURVEY

R. S. PATTON, *Director*

This note is always placed just below the border of the chart and as near a central position as possible. The date in this note remains unchanged until an extensive correction is made on the plate from which the chart is printed. The date is then changed and the issue known as a new edition.

When a correction, not of sufficient importance to require a new edition, is made to a chart plate, the year, month, and day are noted below the border in the left-hand corner of the chart, thus: 20–6/30, 7/22, 21–2/3, 5/27.

EXPLANATORY NOTES

The charts embraced in this catalogue are constructed on different scales in order to adapt them to the different conditions of navigation. The small-scale charts include large areas and are suited to offshore navigation, while those on large scale include small areas and are suited to alongshore navigation.

They are classified as follows:

SAILING CHART.—Scale, 1:1,600,000.

It is intended for the use of the navigator to fix his position as he approaches the coast from the open ocean or when sailing between distant coast ports. It shows the offshore soundings, the principal lights and outer buoys, and such natural landmarks as may be visible at a considerable distance.

GENERAL CHARTS OF THE COAST.—Scales from 1:400,000 to 1:800,000. They are intended for coastwise navigation when the vessel's course would mostly be within sight of land, with her position fixed by landmarks, lights, outer buoys, and characteristic soundings.

COAST CHARTS.—Scales from 1:100,000 to 1:200,000. They are intended for close coastwise navigation when a vessel's course would carry her inside outlying reefs and shoals; also for entering bays and harbors of considerable width and for navigating the large inland waterways.

HARBOR CHARTS.—Scales from 1:5,000 to 1:80,000. They are intended for navigation of harbors and small waterways.

CONTENTS

	Page
Explanation of dates on U. S. Coast and Geodetic Survey charts	2
Explanatory notes	2
Sales agencies	3
Coast pilots	3
Current tables	3
Tide tables	3
Notice to mariners	3
Topographic maps of the Philippine Islands	5
Charts of the Philippine Islands, numerically arranged	7–15
Table of scale equivalents	16

SALES AGENCIES

Agencies for the sale of the charts, coast pilots, and tide tables of the U. S. Coast and Geodetic Survey.

Philippine Islands:

Cebu—Pacific Commercial Co.

Iloilo—Hoskyn & Co.

Manila—*Luzon Stevedoring Co., between Pier 3 and Pier 5, Port Area.

†U. S. Coast and Geodetic Survey Field Station, Intendencia Building.

Zamboanga—Francisco Barrios & Co.

Hawaii:

Honolulu—*Honolulu Paper Co. (Ltd.), 1045 Bishop Street.

Agents marked with an asterisk (*) also handle Hydrographic Office publications. Agents marked with a dagger (†) also handle Lighthouse Service publications.

COAST PILOTS

Philippine Islands, Part 1.—Luzon, Mindoro, and Visayas, 8vo, canvas, 1927, with supplement to Jan. 1, 1929. Price, 75 cents.

Philippine Islands, Part 2.—Palawan, Mindanao, and Sulu Archipelago, 8vo, canvas, 1921, with supplement to Jan. 1, 1929. Price, 75 cents.

TIDE TABLES

[Published annually six months in advance]

	Price
United States and Foreign Ports	$0. 75
Pacific Coast Tide Tables for western North America, eastern Asia, and many island groups	. 15

CURRENT TABLES

[Published annually six months in advance]

Pacific Coast, North America and Philippine Islands	$0. 10

NOTICE TO MARINERS

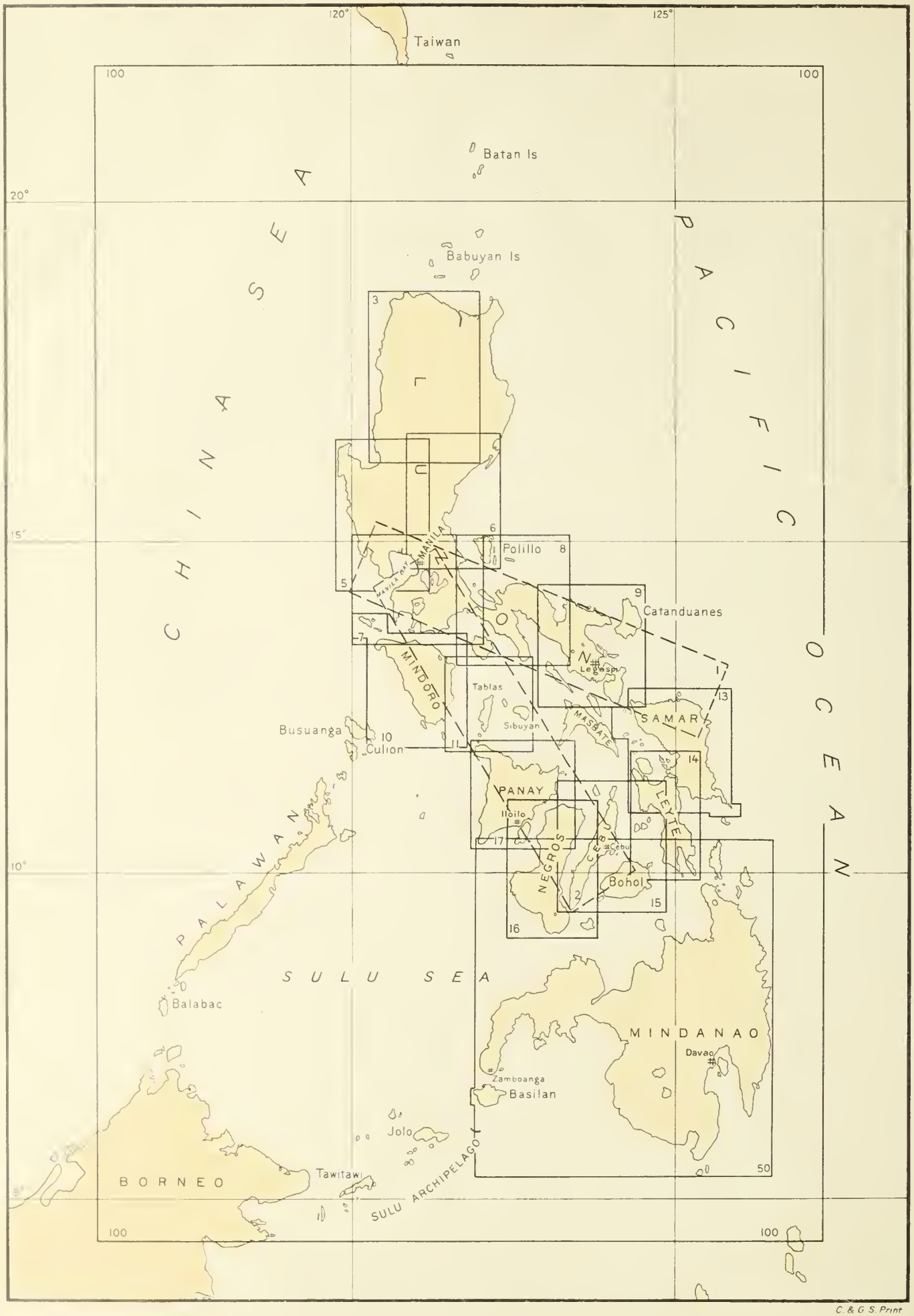
Corrections to be applied to charts to keep them up to date and the announcement of new charts, new editions of charts, and new publications of the Philippine Islands are included in the Notice to Mariners, published by the U. S. Coast and Geodetic Survey Field Station, Manila, P. I.

TRIANGULATION*

Philippine Islands, Vol. I.—8vo., paper, pp. 468, 1927	$0. 50
Philippine Islands, Vol. II.—8vo., paper, pp. 476, 1927	. 50
Manila—8vo., paper, pp. 55, 1926	. 15

* Obtainable only from the Director of Coast Surveys, Manila, P. I.

84028°—30


120°
125°
100
100
20°
15°
10°
Taiwan
Batan Is
Babuyan Is
CHINA SEA
PACIFIC OCEAN
LUZON
MANILA
Manila
Manila Bay
Polillo
Catanduanes
Virac
Legaspi
MINDORO
Mindoro Str.
Tablas
Sibuyan
MASBATE
SAMAR
Busuanga
Culion
PANAY
Iloilo
LEYTE
Cebu
NEGROS
Bohol
PALAWAN
SULU SEA
Balabac
MINDANAO
Davao
Zamboanga
Basilan
Jolo
Tawitawi
BORNEO
SULU ARCHIPELAGO
3
5
6
7
8
9
10
11
13
14
15
16
17
2
50

C. & G. S. Print

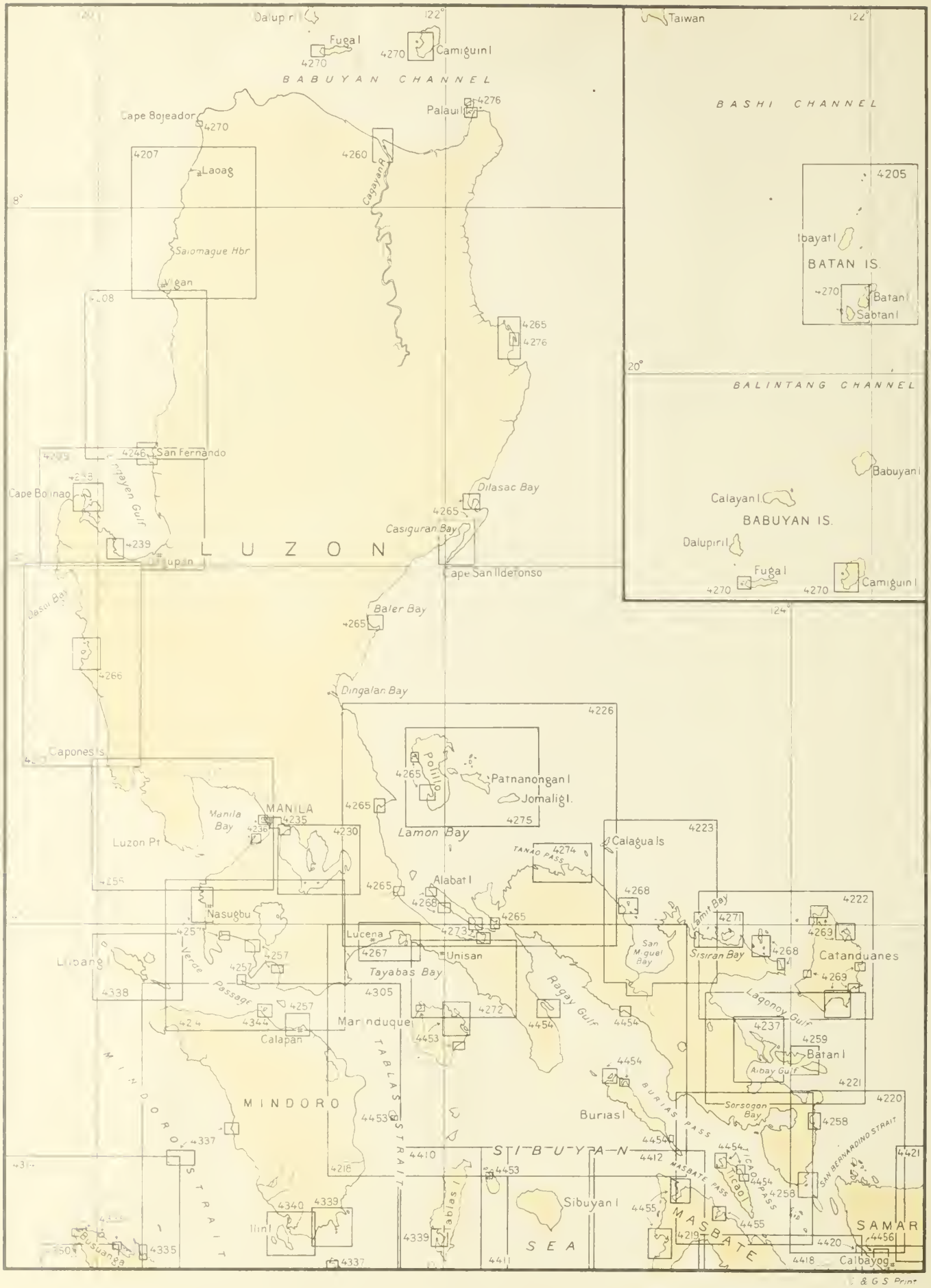
TOPOGRAPHIC MAPS OF THE PHILIPPINE ISLANDS

Cat. No.	Title	Scale	Size	Date	Price
			Inches		
3	Northern Luzon—western sheet	1:200,000	38×56	1929	$2.00
5	Central Luzon	1:200,000	32×50	1928	1.50
6	Central Luzon—eastern sheet	1:200,000	31×45	1926	1.00
7	Southern Luzon	1:200,000	36×44	1925	1.50
8	Southern Luzon—central sheet	1:200,000	39×44	1916	1.50
9	Southern Luzon—southern sheet	1:200,000	36×41	1920	1.50
10	Mindoro	1:200,000	32×40	1929	1.00
11	Islands of Tablas, Romblon, and Sibuyan	1:200,000	30×32	1913	.50
13	Samar and adjacent islands	1:200,000	*Inches* 36×40	1920	$1.50
14	Leyte	1:200,000	24×44	1914	1.00
15	Cebu and Bohol	1:200,000	38×44	1915	1.50
16	Negros	1:200,000	32×46	1924	1.50
17	Panay	1:200,000	35×38	1912	1.00
50	Mindanao*	1:600,000	36×39	1923	1.50
100	Philippine Islands (in four sheets)†	1:1,000,000	50×78	1927	2.00

* Index of names appearing on map No. 50, 8vo., 22 pp. Price, 10 cents.
† Can be supplied by the Director of Coast Surveys, Manila, P. I., mounted on muslin, at $4 per copy.

AIRWAY MAPS

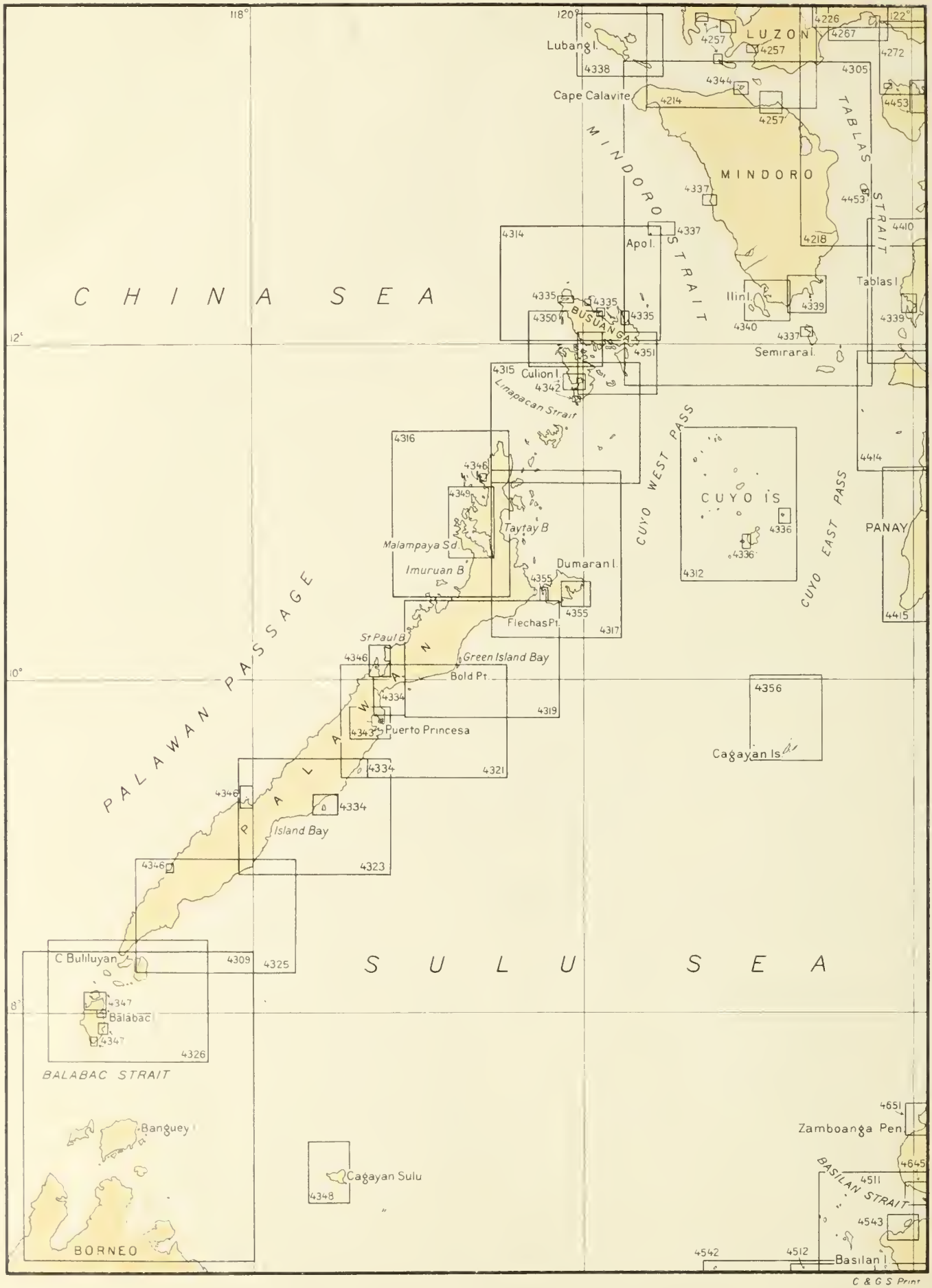
Cat. No.	Title	Scale	Date	Price
1	Manila to Legaspi and Laoang	1:500,000	1929	$0.50
2	Manila to Cebu (in preparation)	1:500,000	------	.50


Dalupiri I
Fuga I
4270
Camiguin I
BABUYAN CHANNEL
Cape Bojeador
4270
Palaui I
4276
4260
Cagayan R.
4207
Laoag
Salomague Hbr
Vigan
4208
4265
4276
San Fernando
4246
Cape Bolinao
4238
Lingayen Gulf
4239
Dilasac Bay
4265
Casiguran Bay
L U Z O N
Cape San Ildefonso
Lupan
Subic Bay
4266
Baler Bay
4265
Dingalan Bay
4226
Capones Is.
Polillo
Patnanongan I
Jomaligl.
4265
4275
MANILA
4235
Manila Bay
4236
Luzon Pt
4230
Lamon Bay
4265
Calaguas Is
4223
TANAO PASS
4274
Alabat I
4265
4268
4268
Nasugbu
4257
Lucena
4267
4273
Unisan
Tayabas Bay
Verde Passage
4257
4257
Lubang I
4338
4305
4424
4344
Marinduque
Calapan
4272
4453
4454
Ragay Gulf
4454
Lagonoy Gulf
4237
4259
Batan I
Albay Gulf
4221
4220
Sorsogon Bay
4258
Burias I
4454
BURIAS PASS
4454
MASBATE PASS
4454
Ticao I
4454
4258
SAN BERNARDINO STRAIT
4421
MINDORO
4453
TABLAS STRAIT
4337
4218
4410
S I B U Y A N
4412
Tablas I
4453
Sibuyan I
4455
4455
MASBATE
4219
SAMAR
4456
4420
Calbayog
4418
4339
4340
4339
Ilin I
4335
Busuanga
4337
4411
SEA
Taiwan
122°
BASHI CHANNEL
4205
Ibayat I
BATAN IS.
4270
Batan I
Sabtan I
20°
BALINTANG CHANNEL
Babuyan I
Calayan I.
BABUYAN IS.
Dalupiri I
Fuga I
4270
4270
Camiguin I
124°
Catanduanes
4269
4222
4263
4271
Sibuyan Sea
San Miguel Bay
Sibuyan Bay
4268
4269
Lagonoy Gulf
4237
4259
Batan I
Albay Gulf
4221
4220
Sorsogon Bay
4258
Burias I
4454
BURIAS PASS
4454
MASBATE PASS
4454
Ticao I
4454
4258
SAN BERNARDINO STRAIT
4421
MINDORO
4453
TABLAS STRAIT
4337
4218
4410
S I B U Y A N
4412
Tablas I
4453
Sibuyan I
4455
4455
MASBATE
4219
SAMAR
4456
4420
Calbayog
4418
4339
4340
4339
Ilin I
4335
Busuanga
4337
4411
SEA

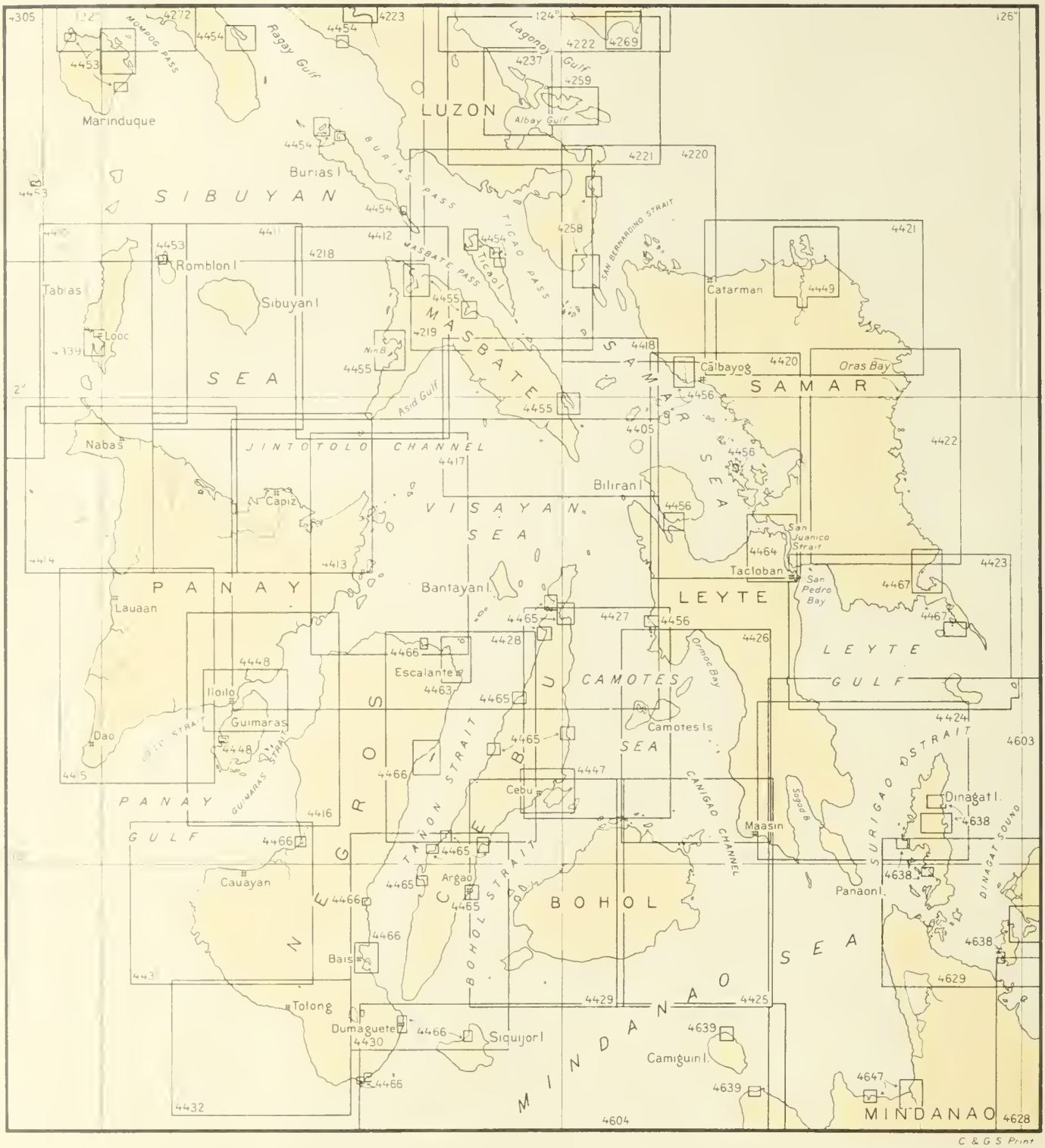
CHARTS OF THE PHILIPPINE ISLANDS

[Numerical arrangement]

Cat. No.	Title	Scale	Size of border (inches)	Date of last edition	Price
	COAST AND HARBOR CHARTS				
4200	Philippine Islands (see p. 15 for diagram)	1:1,600,000	33×49	1924	$0.75
4205	Batan Islands	1:100,000	29×41	1929	.75
4207	Laoag to Vigan, Luzon, I	1:100,000	31×41	1906	.75
	Port Currimao and Gan Bay	1:20,000			
	Salomague Harbor and Lapog Bay	1:20,000			
4208	Solvec Cove to San Fernando; Luzon, I	1:100,000	31×42	1925	.75
	Solvec Cove	1:10,000			
	San Esteban and Nalbo Bay	1:20,000			
	Santiago Cove	1:10,000			
	Darigayos Inlet	1:10,000			
4209	Lingayen Gulf; Luzon, I	1:100,000	31×42	1924	.75
4210	Capones Islands to Basol Bay; Luzon, I	1:125,000	24×41	1915	.75
	Santa Cruz Inner Harbor	1:30,000			
	Iba Anchorage	1:30,000			
4214	Verde Island Passage	1:125,000	31×37	1915	.75
4218	Ragay Gulf to Tayabas Bay; Luzon, I	1:200,000	32×45	1922	.75
	Vinas River	1:50,000			
4219	Passages between Luzon and Masbate and Sorsogon Bay	1:100,000	35×39	1919	.75
4220	San Bernardino Strait; Luzon and Samar, Is	1:100,000	30×41	1917	.75
	Biri Anchorage	1:20,000			
	Mauo River	1:10,000			
4221	Albay Gulf and part of Lagonoy Gulf; Luzon, I	1:100,000	29×40	1924	.75
4222	Lagonoy Gulf to Lamit Bay and Catanduanes Island; Luzon, I	1:100,000	32×43	1924	.75
4223	San Miguel and Lamit Bays; Luzon, I	1:100,000	29×41	1923	.75
	Continuation of Bicol River	1:100,000			
4226	Lamon Bay and Polillo Island	1:200,000	31×35	1928	.75
4230	Laguna de Bay	1:60,000	29×34	1921	.75
	Napindan Channel, Pasig River approach	1:10,000			
4235	Pasig River; Luzon, I	1:10,000	26×42	1922	.75
4236	Manila and Cavite Harbors; Luzon, I		21×35	1924	.50
	Manila Harbor	1:10,000			
	Cavite Harbor	1:10,000			
4237	Tabaco Bay to Legaspi and western part of Albay Gulf; Luzon, I	1:40,000	32×41	1924	.75
4238	Bolinao Harbor and approaches; Luzon, I	1:20,000	35×36	1911	.75
4239	Port Sual to Comas Island; Luzon, I	1:15,000	23×38	1904	.50
4246	San Fernando Harbor; Luzon, I	1:15,000	25×28	1924	.50
4255	Manila Bay and Coast of Luzon to Capones Islands; Luzon, I	1:125,000	27×37	1924	.75
	Mariveles Harbor	1:20,000			
4257	Anchorages, vicinity of Verde Island Passage		28×36	1922	.75
	Nasugbu and Hamilo Cove; Luzon, I	1:50,000			
	Balayan; Luzon, I	1:10,000			
	Taal and Lemery; Luzon, I	1:10,000			
	Batangas; Luzon, I	1:15,000			
	Port Maricaban; Maricaban, I	1:10,000			
	Calapan; Mindoro, I	1:40,000			
	COAST AND HARBOR CHARTS—Continued				
4258	Matnog Bay and Ticlin Strait; Luzon, I	1:30,000	18×26	1916	$0.25
	Port Gubat; Luzon, I	1:20,000			
4259	Rapu Rapu Strait	1:20,000	34×36	1924	.75
4260	Aparri Anchorage and part of Cagayan River; Luzon, I	1:25,000	20×33	1915	.25
4265	Harbors on east coast of Luzon; Luzon, I		25×35	1909	.50
	Port Dimalansan and Port Bicobian	1:60,000			
	West Dilasac Bay	1:50,000			
	Casiguran Bay	1:80,000			
	Baler Bay	1:50,000			
	Hook Bay	1:20,000			
	Polillo Harbor	1:30,000			
	Port Lampon	1:20,000			
	Mauban Anchorage	1:20,000			
	Port Apat	1:20,000			
4266	Ports Masinloc and Matalvi and Palauig Bay; Luzon, I	1:25,000	29×32	1907	.50
4267	Lucena Anchorage, Pagbilao Bay and Port Laguimanoc; Luzon, I	1:40,000	25×35	1924	.50
4268	Harbors from Alabat to Pitogo Bay		26×30	1909	.50
	Port Alabat, southwest coast; Alabat, I	1:20,000			
	Sangirin Bay, northwest coast; Alabat, I	1:20,000			
	Tabgon Anchorage, east coast; Luzon, I	1:30,000			
	Canimo Pass and Mercedes, east coast; Luzon, I	1:25,000			
	Pitogo Bay, east coast; Luzon, I	1:15,000			
4269	Harbors of Catanduanes		24×27	1923	.25
	Cabugao Bay, south coast	1:50,000			
	Bagamanoc and Anajao, east coast	1:30,000			
	Cobo Bay, west coast	1:20,000			
	Port Manamrag, west coast	1:20,000			
	Pandan Bay, north coast	1:30,000			
	Gigmoto Bay, east coast	1:20,000			
	Kalapadan Bay, east coast	1:30,000			
4270	Harbors of Batan and Babuyan Islands and northern Luzon		23×24	1908	.25
	Part of Batan Islands, including Basco and Ibana	1:40,000			
	Port San Pio Quinto; Camiguin, I	1:60,000			
	Musa Bay; Babuyan, I	1:30,000			
	Dirique Inlet; Luzon, I	1:10,000			
4271	Lamit and Sisiran Bays; Luzon, I	1:30,000	30×41	1924	.75
4272	Unisan to Mulanay and northern part of Marinduque; Luzon and Marinduque, Is	1:70,000	28×38	1910	.75
4273	Silangan Pass and Hondagua Harbor; Luzon, I	1:20,000	17×32	1913	.25
4274	Tanao Pass, Luzon, I	1:40,000	24×36	1921	.50
4275	Polillo Islands	1:80,000	32×42	1924	.75
4276	Harbors on the northeast coast of Luzon		22×32	1926	.25
	Port Bicobian	1:15,000			
	Engaño Cove	1:10,000			
	Port San Vicente	1:15,000			

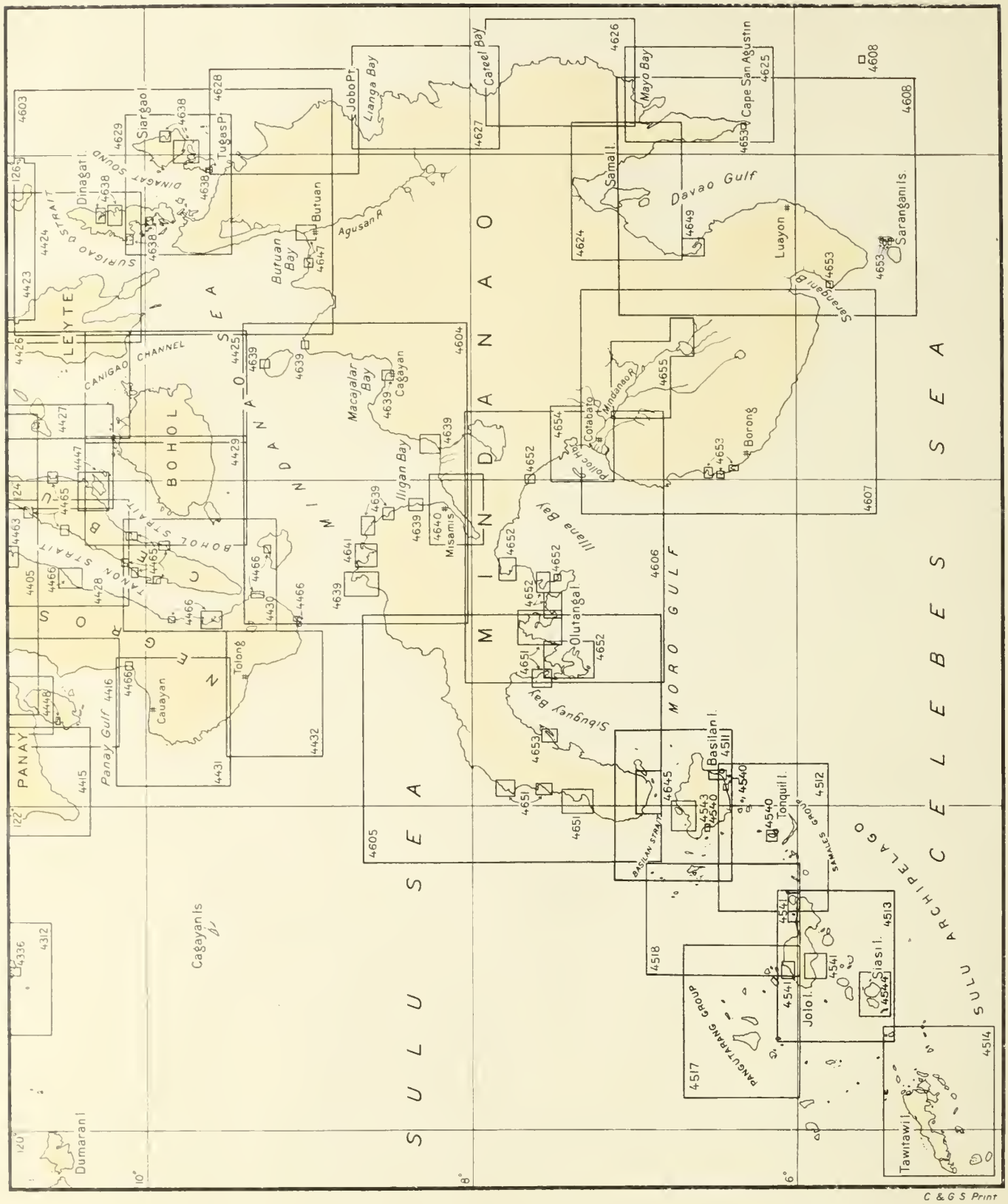

118°
120°
122°
12°
10°
8°
LUZON
Lubang I.
Cape Calavite
MINDORO
MINDORO STRAIT
TABLAS STRAIT
Apo I.
Ilin I.
Tablas I.
Semirara I.
CHINA SEA
BUSUANGA
Culion I.
Linapacan Strait
CUYO WEST PASS
CUYO EAST PASS
CUYO IS
PANAY
PALAWAN PASSAGE
Taytay B
Malampaya Sd.
Imuruan B
Dumaran I.
Flechas Pt.
Sr Paul B
Green Island Bay
Bold Pt.
Puerto Princesa
PALAWAN
Island Bay
Cagayan Is
C Bulilluyan
Balabac I.
BALABAC STRAIT
Banguey I.
BORNEO
Cagayan Sulu
SULU SEA
Zamboanga Pen.
BASILAN STRAIT
Basilan I.
4226
4267
4272
4257
4257
4305
4338
4344
4214
4257
4453
4337
4453
4218
4410
4314
4337
Apo I.
4335
4335
4339
4339
4350
4335
4340
4337
4351
Semirara I.
4315
Culion I.
4342
4316
4346
4414
4349
4336
4336
4312
4355
4355
4317
4415
4346
4334
4319
4343
4356
Cagayan Is
4334
4321
4346
4334
4323
4346
4309
4325
4347
4347
4326
4651
Zamboanga Pen.
4645
4511
4543
4542
4512
Basilan I.
4348
C & G S Print

Cat. No.	Title	Scale	Size of border (inches)	Date of last edition	Price
	COAST AND HARBOR CHARTS—Continued				
4305	Mindoro and vicinity	1:200,000	33×43	1919	$0.75
4309	Balabac Strait	1:200,000	31×42	1921	.75
4312	Cuyo Islands	1:100,000	31×41	1922	.75
4314	Northern part of Busuanga	1:100,000	31×42	1919	.75
4315	Palawan to Culion Island, including Linapacan Strait	1:100,000	32×41	1917	.75
4316	Northwest Palawan	1:100,000	31×45	1925	.75
4317	Northeast coast of Palawan, Shark Fin Bay to Flechas Point; Palawan, I	1:100,000	31×44	1918	.75
4319	Green Island Bay and vicinity	1:100,000	31×41	1920	.75
	Pascoe Channel, Green, I	1:20,000			
4321	Bold Point to Malanao Island	1:100,000	31×43	1920	.75
4323	Malanao Island to Nariz Point	1:100,000	31×43	1922	.75
4325	Nariz Point to Bugsuk Island	1:100,000	31×44	1922	.75
4326	North Balabac Strait and vicinity	1:100,000	32×42	1921	.75
4334	Anchorages East Coast of Palawan		27×39	1921	.75
	Honda Bay	1:40,000			
	Malanao Anchorage	1:40,000			
	Panacan Anchorage	1:40,000			
4335	Harbors on the north coast of Busuanga		18×29	1920	.25
	Minuit Anchorage	1:20,000			
	Illultuk Bay	1:20,000			
	Port Calton	1:20,000			
	Minangas Bay	1:20,000			
4336	Anchorages in Cuyo Islands		29×34	1918	.50
	Tagauayan Islands	1:10,000			
	Cuyo Anchorage and Bisucay Channel	1:10,000			
4337	Anchorages west and south of Mindoro; Mindoro, I		28×36	1916	.75
	Apo Reef	1:20,000			
	Sablayan Anchorage and Pandan Bay	1:20,000			
	Semirara Anchorage	1:20,000			
4338	Lubang Islands	1:60,000	28×38	1914	.75
	Golo Pass	1:20,000			
	COAST AND HARBOR CHARTS—Continued				
4339	Anchorages southeastern Mindoro and Tablas Island		25×37	1912	$0.50
	Looc Bay; Tablas, I	1:40,000			
	Lagara Cove and Passes southward; Mindoro, I	1:20,000			
	Buruncan Point to Pocanil Bay; Mindoro, I	1:40,000			
4340	Mangarin and Pandarochan Bays; Mindoro, I	1:40,000	26×30	1911	.50
4342	Halsey Harbor and Dicabaito Anchorage; Culion, I	1:20,000	23×32	1921	.50
	Dicabaito Anchorage	1:20,000			
4343	Puerto Princesa; Palawan, I	1:40,000	23×29	1920	.25
4344	Port Galera and Varadero Bay; Mindoro, I	1:10,000	29×35	1924	.75
4346	Harbors of Palawan Island		26×30	1920	.50
	Bacuit, northwest coast	1:15,000			
	Ulugan Bay, west coast	1:30,000			
	Malanut and Nakoda Bays, west coast	1:30,000			
	Culasian Bay, west coast	1:20,000			
4347	Harbors of Balabac Island		23×28	1920	.25
	Clarendon Bay, south coast	1:15,000			
	Calandorang Bay, east coast	1:15,000			
	Delawan Bay, east coast	1:20,000			
	Port Ciego, north coast	1:40,000			
4348	Cagayan Sulu and adjacent islands	1:75,000	19×37	1924	.50
	Lapunlapun Anchorage	1:15,000			
4349	Malampaya Sound and approaches; Palawan, I	1:50,000	26×38	1926	.50
4350	Western entrance to Coron Bay; Calamian Group	1:50,000	30×39	1919	.75
4351	Coron Bay; Calamian Group	1:50,000	33×41	1916	.75
	Culion Landing	1:2,000			
4355	Harbors on Dumaran Island	1:20,000	33×38	1920	.75
	Dumaran Bay	1:20,000			
4356	Cagayan Islands	1:60,000	33×39	1923	.75
	Cagayan Anchorage	1:10,000			

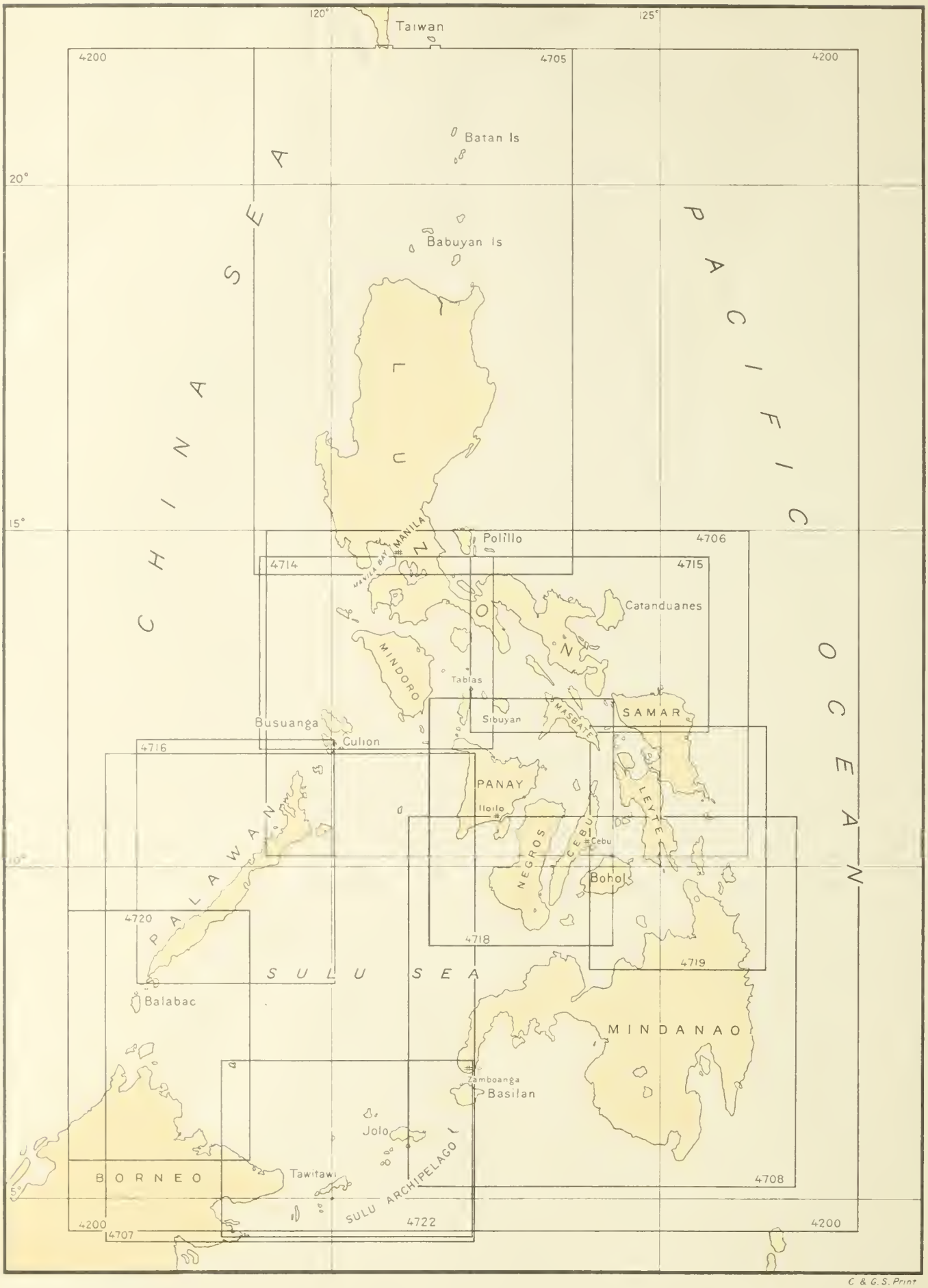

LUZON
SIBUYAN
SEA
MASBATE
SAMAR
SAMAR SEA
VISAYAN SEA
PANAY
LEYTE
LEYTE GULF
CAMOTES SEA
BOHOL SEA
MINDANAO
Marinduque
Burias I.
Romblon I.
Tablas
Sibuyan I.
Looc
Nabas
Capiz
Lauaan
Iloilo
Guimaras
Dao
Escalante
Bantayan I.
Cebu
Camotes Is.
Tacloban
Biliran I.
Catarman
Calbayog
Oras Bay
San Juanico Strait
San Pedro Bay
Ormoc Bay
Maasin
Sogod B.
Dinagat I.
Panaon I.
Surigao Strait
Dinagat Sound
Canigao Channel
Tañon Strait
Bohol Strait
Guimaras Strait
Jintotolo Channel
Masbate Pass
Ticao Pass
Burias Pass
San Bernardino Strait
Mompog Pass
Ragay Gulf
Lagonoy Gulf
Albay Gulf
Asid Gulf
Cauayan
Argao
Bais
Tolong
Dumaguete
Siquijor I.
Camiguin I.

C & G S Print

Cat. No.	Title	Scale	Size of border (inches)	Date of last edition	Price
	COAST AND HARBOR CHARTS—Continued				
4405	Visayan Sea	1:200,000	28×41	1914	$0.75
4410	Tablas Island and vicinity	1:100,000	28×38	1913	.75
4411	Sibuyan and Romblon Islands	1:100,000	29×39	1914	.75
4412	Western Masbate	1:100,000	30×40	1917	.75
4413	Northern Panay, Sigat Point to Bulacaue Point	1:100,000	30×42	1919	.75
	Capiz Bay	1:30,000			
	Port Batan	1:30,000			
4414	Northwestern Panay	1:100,000	32×40	1917	.75
4415	Southwestern Panay	1:100,000	30×40	1921	.75
	San Jose De Buenavista	1:10,000			
4416	Iloilo and Guimaras Straits; Panay and Guimaras, Is	1:100,000	30×41	1925	.75
4417	Northeastern Panay and adjacent islands	1:100,000	31×42	1911	.75
4418	Southeast Masbate	1:100,000	30×41	1915	.75
4420	Calbayog to Tacloban; Samar and Leyte, Is	1:100,000	29×42	1924	.75
	Catbalogan Harbor	1:35,000			
4421	Catarman to Oras Bay; Samar, I	1:100,000	30×42	1908	.75
	Helm Harbor and San Ramon Bay	1:25,000			
4422	Oras Bay to Matarinao Bay; Samar, I	1:100,000	29×41	1908	.75
	Port Libas	1:30,000			
	Port Borongan	1:30,000			
	Llorente and vicinity	1:30,000			
4423	Southern part of Samar and San Pedro Bay	1:100,000	30×43	1910	.75
4424	Southeast coast of Leyte and Dinagat Island	1:100,000	31×41	1913	.75
	Liloan Bay and Panaon Strait	1:10,000			
4425	Eastern Bohol and part of Leyte	1:100,000	31×44	1910	.75
4426	Southwest coast of Leyte, Ormoc Bay to Maasin	1:100,000	30×41	1915	.75
	Maasin	1:10,000			
4427	East coast of Cebu; Cebu, I	1:100,000	28×40	1910	.75
4428	Northern part of Tañon Strait; Negros and Cebu, Is	1:100,000	29×40	1911	.75
4429	Western Bohol; Bobol, I	1:100,000	30×44	1911	.75
4430	Tañon Strait, southern part; Cebu and Negros, Is	1:100,000	31×42	1911	.75
4431	Western Negros	1:100,000	32×36	1926	.75
	Asia Bay	1:10,000			
4432	Southwestern Negros	1:100,000	27×35	1913	.75
4447	Cebu Harbor and approaches; Cebu, I	1:30,000	28×35	1925	.50
	Cebu Harbor	1:10,000			
4448	Iloilo Strait and Harbor; Panay, I	1:50,000	24×32	1919	.50
	Iloilo River	1:10,000			
	Santa Ana Bay	1:20,000			
4449	Port Palapag and Laoang Bay; Samar, I	1:40,000	31×33	1924	.75
4453	Harbors of Marinduque Island and vicinity		29×36	1913	.75
	Port Balanacan, northwest coast; Marinduque, I	1:10,000			
	Santa Cruz Harbor and Masagasai Bay, northeast coast; Marinduque, I	1:30,000			
	Torrijos Bay, east coast; Marinduque, I	1:5,000			
	Port Concepcion; Maestro de Campo, Is	1:10,000			
	Romblon Harbor, west coast; Romblon, I	1:10,000			
4454	Harbors on Burias and Ticao Islands and Ragay Gulf		31×33	1920	$0.75
	Port Pusgo, Ragay Gulf; Luzon, I	1:30,000			
	Pasacao Anchorage, Ragay Gulf; Luzon I	1:20,000			
	Port Busin, northb coast; Burias, I	1:20,000			
	Port Busainga, northeast coast; Burias, I	1:15,000			
	Port Boca Engaño, southeast coast; Burias, I	1:10,000			
	Port San Miguel, northwest coast; Ticao, I	1:20,000			
	Port San Jacinto, east coast; Ticao, I	1:20,000			
	Taclogan Bay, east coast of Ticao, I	1:20,000			
4455	Harbors on the coast of Masbate		28×37	1917	.75
	Port Barrera, north coast	1:30,000			
	Masbate Harbor, northeast coast	1:20,000			
	Port Cataingan, east coast	1:30,000			
	Nin Bay, west coast	1:30,000			
4456	Harbors of Samar and Leyte		24×28	1914	.25
	Jibatan River, west coast; Samar, I	1:50,000			
	Santo Niño Harbor; Santo Niño, I	1:5,000			
	Parasan Harbor; Daram, I	1:10,000			
	Biliran Strait; Leyte and Biliran, Is	1:20,000			
	Port Palompon; Leyte, I	1:10,000			
4463	Escalante Harbor and vicinity; Negros, I	1:20,000	30×41	1924	.75
4464	San Juanico Strait and Janabatas Channel; Samar and Leyte, Is	1:30,000	31×40	1910	.75
	Northern entrance to San Juanico Strait	1:10,000			
4465	Harbors in Cebu		25×32	1912	.50
	Hagnaya Bay	1:30,000			
	Tuburan	1:30,000			
	Balamban Bay	1:30,000			
	Lambusan	1:30,000			
	Dumanjug Bay	1:20,000			
	Moalbual	1:20,000			
	Argao	1:25,000			
	Bogo Bay	1:30,000			
	Carcar Bay	1:15,000			
	Port Carmen	1:15,000			
	Barili Bay	1:15,000			
4466	Harbors in Negros and vicinity		32×36	1922	.75
	Dumaguete; Negros, I	1:10,000			
	Himugaan River; Negros, I	1:15,000			
	Calagcalag Bay; Negros, I	1:10,000			
	Port Canoan; Siquijor, I	1:5,000			
	Port Bombonon; Negros, I	1:10,000			
	Refugio Pass; Negros, I	1:35,000			
	Bais; Negros, I	1:30,000			
	Port Siyt; Negros, I	1:10,000			
	Himamaylan; Negros, I	1:20,000			
4467	Guiuan Harbor; Samar, I	1:20,000	19×31	1911	.25
	Pambujan Harbors; Samar, I	1:35,000			


SULU SEA
MINDANAO
MORO GULF
CELEBES SEA
SULU ARCHIPELAGO
LEYTE
BOHOL
PANAY
Dinagat I.
Siargao I.
Tugas P.
Jobo Pt.
Lianga Bay
Carel Bay
Mayo Bay
Cape San Agustin
Davao Gulf
Samal I.
Sarangani Is.
Luayon
Boroñ
Cotabato
Polloc Harbor
Mindanao R.
Agusan R.
Butuan
Butuan Bay
Surigao Strait
Dinagat Sound
Canigao Channel
Macajalar Bay
Cagayan
Iligan Bay
Misamis
Illana Bay
Sibuguey Bay
Olutanga I.
Basilan I.
Basilan Strait
Tonquil I.
Sulu Group
Jolo I.
Siasi I.
Pangutaran Group
Tawitawi I.
Cagayan Is.
Dumaran I.
Panay Gulf
Cauayan
Tolong
Sibuguey Bay
C & G S Print

Cat. No.	Title	Scale	Size of border (inches)	Date of last edition	Price
	COAST AND HARBOR CHARTS—Continued				
4511	Basilan Strait; Mindanao and Basilan, Is	1:100,000	32×42	1928	$0.75
4512	Samales Group, Sulu Archipelago	1:100,000	31×42	1926	.75
4513	Jolo and Tapul Islands, Sulu Archipelago	1:100,000	33×42	1928	.75
4514	Tawitawi Group, Sulu Archipelago	1:100,000	31×41	1906	.75
	Port Dos Amigos	1:15,000			
	Port Bongao	1:25,000			
	Simanale Bay and Channel	1:25,000			
4517	Pangutarang Islands	1:100,000	31×42	1929	.75
4518	Jolo to Pilas Islands, Sulu Archipelago	1:100,000	31×42	1929	.75
4540	Anchorages Basilan and Samales Islands		32×33	1927	.50
	Port Holland, west coast of Basilan	1:5,000			
	Amoyloi, Anchorage south coast of Basilan	1:20,000			
	Ton Sandungun Channel, Samales Group	1:20,000			
	Bojelebung and Kauluan Channels, east coast of Basilan	1:15,000			
4541	Anchorages in Jolo Island; Jolo, I		31×32	1927	.50
	Jolo Anchorage, north coast	1:10,000			
	Dalrymple Harbor and Capual Channel, northeast coast	1:20,000			
	Maimbung Bay, south coast	1:40,000			
4543	Isabela Channel and approaches; Basilan, I	1:25,000	25×33	1925	.50
4544	Siasi and Lapac Islands	1:30,000	31×40	1906	.75
4603	Surigao Strait and vicinity; Mindanao and Leyte, Is	1:200,000	34×44	1923	.75
4604	Iligan Bay and vicinity	1:200,000	31×41	1929	.75
4605	Zamboanga Peninsula; Mindanao, west coast	1:200,000	34×41	1923	.75
4606	Port Sibulan to Polloc Harbor; Mindanao, I	1:200,000	28×37	1927	.75
4607	Cotabato to Sarangani Bay; Mindanao, I	1:200,000	31×41	1925	.75
	Milbuk Harbor	1:10,000			
4608	Sarangani Bay to Mayo Bay	1:200,000	33×41	1926	.75
	Palmas Island	1:20,000			
4624	Northern part of Davao Gulf; Mindanao, I	1:100,000	32×39	1925	.75
	Davao	1:20,000			
	Malipano Anchorage	1:20,000			
4625	Cape San Augustin to Mayo Bay; Mindanao, I	1:100,000	26×40	1914	.75
	Balete Bay	1:20,000			
4626	Mayo Bay to Cateel Bay; Mindanao, I	1:100,000	30×41	1915	.75
4627	Cateel Bay to Jobo Point; Mindanao, I	1:100,000	29×40	1915	.75
	Lamon Anchorage	1:20,000			
	Catarman Anchorage	1:20,000			
4628	Jobo Point to Tugas Point; Mindanao, I	1:100,000	29×40	1913	.75
	Bitaugan Bay	1:30,000			
4629	Hinatuan Passage; Mindanao, I	1:100,000	30×38	1913	.75
	Surigao	1:10,000			
4638	Harbors on Dinagat, Siargao and Bucas Islands		30×37	1913	.75
	Dapa Cbannel	1:35,000			
	Gaas Bay and Inlet	1:30,000			
	Dinagat	1:20,000			
	Sobutan Bay and Inlet	1:20,000			
	San Roque	1:25,000			
	COAST AND HARBOR CHARTS—Continued				
	Harbors on Dinagat, Siargao and Bucas Islands—Con.				
	Port Pilar	1:30,000			
	Malinao Inlet	1:25,000			
4639	Anchorages in Iligan Bay and vicinity; Mindanao, I		29×35	1911	$0.75
	Plaridel and Inamucan Bay	1:25,000			
	Dapitan and Dipolog	1:40,000			
	Canauayor Anchorage	1:20,000			
	Jimenez	1:20,000			
	Iligan and Overton Anchorages and Quinalang Cove	1:40,000			
	Oroquieta	1:20,000			
	Port Mambajao	1:10,000			
	Cagayan Anchorage	1:20,000			
4640	Port Misamis, Mindanao, I	1:60,000	26×33	1908	.50
	Port Misamis	1:20,000			
4641	Murcielagos Bay; Mindanao, I	1:20,000	30×32	1929	.50
4645	Vicinity of Zamboanga Masinloc Anchorage to Caldera Bay; Mindanao, I	1:30,000	24×37	1925	.50
	Zamboanga water front	1:5,000			
4647	Agusan River entrance; Mindanao, I	1:20,000	19×28	1911	.25
	Nasipit Harbor; Mindanao, I	1:15,000			
4649	Malalag Bay, soutb coast; Mindanao, I	1:20,000	23×25	1923	.25
4651	Harbors on the south and west coasts of Mindanao		28×32	1922	.50
	Dumanquilas Bay; Mindanao, I	1:75,000			
	Taba Bay; Mindanao, I	1:30,000			
	Port Santa Maria; Mindanao, I	1:30,000			
	Panabutan and Piacan Bays; Mindanao, I	1:40,000			
	Sibuco Bay; Mindanao, I	1:30,000			
4652	Harbors in Illana Bay and vicinity; Mindanao, I		31×33	1912	.75
	Port Sibulan	1:60,000			
	Port Baras	1:20,000			
	Limbug Cove	1:15,000			
	Port Sambulauan	1:30,000			
	Pagadian Bay	1:50,000			
	Maligay Bay	1:50,000			
4653	Harbors on the south coast of Mindanao, I		25×34	1925	.50
	Lavigan Anchorage; Mindanao, I	1:5,000			
	Port Patuco, Sarangani, I	1:10,000			
	Port Bolay, Sarangani, I	1:5,000			
	Port Tumanao, west coast; Sarangani, I	1:15,000			
	Canalasan Cove; Mindanao, I	1:20,000			
	Basiauang Bay; Mindanao, I	1:20,000			
	Port Lebak; Mindanao, I	1:20,000			
	Tuna Bay; Mindanao, I	1:20,000			
	Port Banga; Mindanao, I	1:20,000			
4654	Mindanao River Delta and Polloc Harbor; Mindanao, I	1:50,000	34×41	1917	.75
	Parang and Polloc Anchorages	1:20,000			
	Cotabato entrance, Mindanao River	1:20,000			
4655	Mindanao River, upper part; Mindanao, I	1:50,000	34×42	1924	.75
	Continuation of Buluan and Alip Rivers	1:50,000			


120°
125°
Taiwan
4200
4705
4200
Batan Is
20°
CHINA SEA
PACIFIC OCEAN
Babuyan Is
LUZON
15°
MANILA BAY
MANILA
Polillo
4706
4714
4715
Catanduanes
MINDORO
Tablas
Sibuyan
MASBATE
SAMAR
Busuanga
Culion
4716
PANAY
Iloilo
LEYTE
Cebu
NEGROS
CEBU
Bohol
10°
PALAWAN
4720
4718
4719
SULU SEA
Balabac
MINDANAO
Zamboanga
Basilan
Jolo
BORNEO
Tawitawi
SULU ARCHIPELAGO
4708
5°
4200
4707
4722
4200

C. & G. S. Print

Charts of the Philippine Islands—Continued

Cat. No.	Title	Scale approximate	Size of border (inches)	Date of last edition	Price	Cat. No.	Title	Scale	Size of border (inches)	Date of last edition	Price
	SAILING CHART AND GENERAL CHARTS OF THE COAST						**SAILING CHART AND GENERAL CHARTS OF THE COAST**—Contd.				
4200	Philippine Islands	1:1,600,000	33×49	1924	$0.75	4715	Southeastern Luzon and parts of Masbate and Samar	1:400,000	30×40	1917	$0.75
4705	Manila Bay to Taiwan	1:800,000	28×44	1926	.75	4716	Palawan	1:400,000	34×40	1922	.75
4706	Philippine Islands, central part	1:800,000	27×40	1922	.75	4718	Panay, Negros and Cebu, with parts of Bohol and Masbate	1:400,000	31×41	1917	.75
4707	Philippine Islands, southwestern part	1:800,000	31×41	1928	.75	4719	Surigao Strait and Leyte, with parts of Samar and Mindanao	1:400,000	30×40	1925	.75
4708	Philippine Islands, southeastern part	1:800,000	31×33	1926	.75	4720	Balabac Strait and approaches	1:400,000	31×41	1924	.75
4714	Southwestern Luzon and Mindoro	1:395,000	32×39	1920	.75	4722	Sulu Archipelago	1:400,000	30×42	1929	.75

TABLE OF SCALE EQUIVALENTS

The following table gives the lengths of nautical and statute miles on the several scales named, these scales being the proportionate size of the chart to nature. That is, in the scale 1:1,200 the chart is 1:1,200 part of the actual linear dimensions in nature (or 100 feet to the inch), equal to 60.8 inches to a nautical mile, and 52.8 inches to a statute mile, and so on.

A nautical mile is a minute of an average great circle of the earth, and its length is 6,080 feet, or 1,853.2 meters. A statute mile is 5,280 feet, or 1,609.3 meters.

Scale	Nautical mile		Statute mile	
	Inches	Centimeters	Inches	Centimeters
1:1,200	60.803	154.44	52.800	134.11
1:2,400	30.401	77.22	26.400	67.06
1:4,800	15.201	38.61	13.200	33.53
1:5,000	14.593	37.06	12.672	32.19
1:10,000	7.296	18.53	6.336	16.09
1:15,000	4.864	12.36	4.224	10.73
1:20,000	3.648	9.27	3.168	8.05
1:30,000	2.432	6.18	2.112	5.36
1:40,000	1.824	4.63	1.584	4.02
1:50,000	1.459	3.71	1.267	3.22
1:60,000	1.216	3.09	1.056	2.68
1:80,000	.912	2.32	.792	2.01
1:100,000	.730	1.85	.634	1.61
1:200,000	.365	.93	.317	.80
1:400,000	.182	.46	.158	.40
1:1,000,000	.073	.18	.063	.16
1:1,200,000	.061	.15	.053	.13

1 meter=39.37 inches; 1 centimeter=0.3937 inch; 1 inch=2.54 centimeters.